CVEQ 100
SVEQ 100

VIDEO AND AUDIO LINE DRIVERS WITH GAIN AND EQUALIZATION

- Drives composite video or S-video up to 1000' (300 m) on Extron RG59 or equivalent cable
- Drives stereo audio up to 1000' (300 m) on Extron STP or equivalent cable
- Independent gain and EQ adjustment
- Active audio buffering
- High quality BNC connectors, in and out, for secure video signal connections
- Quad standard for worldwide compatibility
- Compact metal enclosure mounts virtually anywhere

CVEQ 100

SVEQ 100

The Extron CVEQ 100 and SVEQ 100 are high performance one input, one output video and audio line drivers. They are capable of driving composite video or S-video and stereo audio signals 1000' (300 m) or more. The CVEQ 100 and SVEQ 100 are housed in durable metal enclosures that are ideal for both permanent installations as well as rental and staging applications where a wide range of mounting options is desirable.

DESCRIPTION

The **CVEQ 100** and **SVEQ 100** are one input, one output, high-performance line drivers for composite video and S-video, respectively, and stereo audio. They are ideal for applications in rental and staging, auditoriums and conference facilities, commercial and residential entertainment systems, and other applications where video signals must be routed over long distances.

MODEL	INPUTS		OUTPUTS	
	VIDEO	AUDIO	VIDEO	AUDIO
CVEQ 100	Composite BNC (1)	Unbal. RCA (2)	Composite BNC (1)	Bal./Unbal. 3.5 mm captive screw (1)
SVEQ 100	S-Video BNC (2)	Unbal. RCA (2)	S-Video BNC (2)	Bal./Unbal. 3.5 mm captive screw (1)

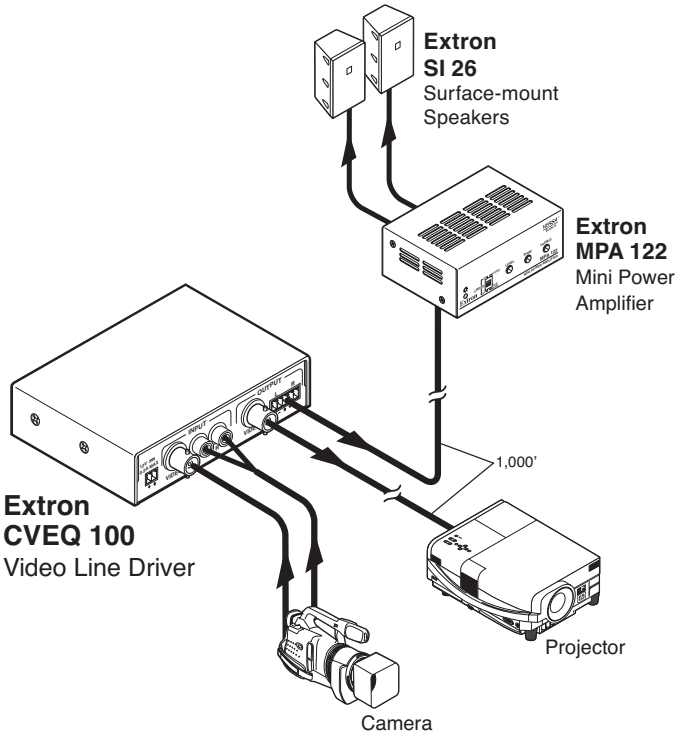
The CVEQ 100 and SVEQ 100 feature independent gain and EQ adjustments which compensate for signal losses due to long cable runs, and offer optimum signal quality regardless of cable length. The gain control allows for brightness adjustment by varying the overall voltage of the signal. With the SVEQ 100, gain for the luminance and chrominance channels is separately controlled. The EQ control helps maintain sharpness and high frequency detail.

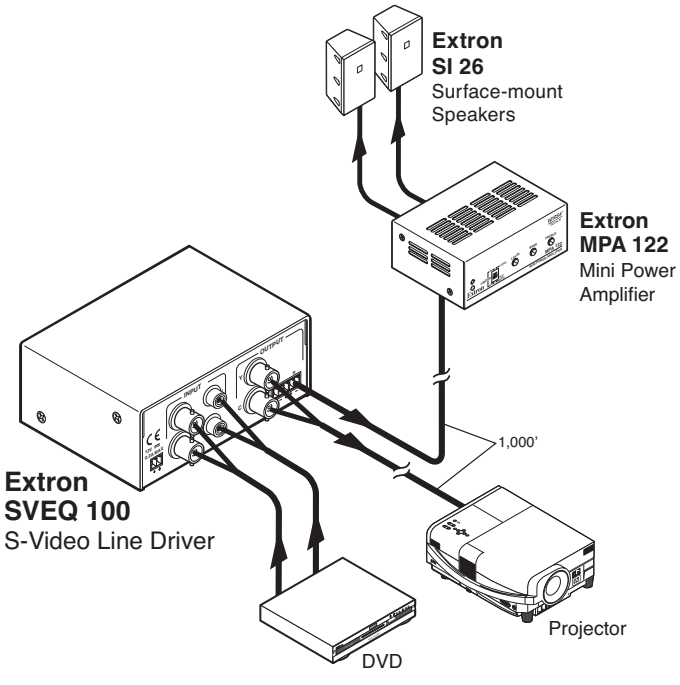
Both products feature active audio buffering which converts unbalanced audio signals to balanced line level and simplifies integration of consumer-grade A/V products in commercial or professional-grade systems. Balanced audio signals are less susceptible to noise, and due to the inherent +6 dB signal gain, allow for cable runs up to 1,000' (300 m).

FEATURES

- **Long distance line driver** – Drives video and audio signals up to 1000' (300 m) over standard coax and STP cables
- **Adjustable gain control** – Compensates for signal voltage losses due to cable resistance
- **Adjustable EQ control** – Compensates for loss of sharpness and high frequency detail due to cable capacitance
- **Active audio buffering** – Converts unbalanced audio signals to balanced line level signals
- **Compact metal enclosure** – Rack-mountable enclosure that is ideal for permanent installations and rental and staging applications
- **External, international power supply** – Provides worldwide power compatibility

APPLICATION DIAGRAMS





VIDEO

Gain	
Composite video and Y of S-video	-1 dB to +3 dB, adjustable
C of S-video	0dB to +10 dB, adjustable
Equalization	0 dB to +6 dB at 5 MHz, adjustable
Bandwidth (Y of S-video)	200 MHz (-3 dB)
Output cable driving distance	Up to 1000' (300 m) with Extron MHR cable

VIDEO INPUT

Number/signal type	
CVEQ 100	1 composite video
SVEQ 100	1 S-video
Connectors	
CVEQ 100	1 female BNC
SVEQ 100	2 female BNC
Nominal level	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	
CVEQ 100	0.4 to 2.0 Vp-p with no offset at unity gain
SVEQ 100	For Y: 0.4 to 2.0 Vp-p with no offset at unity gain
Impedance	75 ohms
Return loss	<-25 dB @ 0 to 5 MHz
DC offset (max. allowable)	4.0 V
Input coupling	AC

VIDEO OUTPUT

Number/signal type	
CVEQ 100	1 composite video
SVEQ 100	1 S-video
Connectors	
CVEQ 100	1 female BNC
SVEQ 100	2 female BNC
Nominal level	1 Vp-p for Y of S-video, and for composite video (including sync) 0.3 Vp-p for C of S-video
Minimum/maximum levels	0.4 to 2.0 Vp-p (follows input)
Impedance	75 ohms
Return loss	-30 dB @ 5 MHz
DC offset	±5 mV with no input signal Floating: +0.1 to -0.6 V, depending on input signal content

SYNC

Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM

AUDIO

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, +0.05 dB, -0.0 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Crosstalk	<-80 dB @ 1 kHz
Stereo channel separation	>80 dB @ 1 kHz
Output cable driving distance	Up to 1000' (300 m) with Extron STP cable

AUDIO INPUT

Number/signal type	1 stereo unbalanced
Connectors	2 RCA female
Impedance	20k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+9 dBV (2.8 V), (unbalanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level	-10 dBV (316 mVrms), unbalanced; -2 dBu (632 mV), balanced output
Maximum level	+9 dBV (2.8 V) unbalanced, +17 dBu (5.6 V) balanced at 1% THD+N with a 10k ohm load

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.2 A
Temperature/humidity	
Storage	-40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating	+32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or 1U, 6" deep rack shelf, part #60-190-10 or 60-604-10; or VersaTools® 3" deep rack shelf, part #60-190-20 or 60-604-20. Also furniture and projector mountable with optional mounting kits.
Enclosure type	Metal
Enclosure dimensions	
CVEQ 100	1.0" H x 4.3" W x 3.0" D (<1U high, quarter rack wide) 2.5 cm H x 11.0 cm W x 7.6 cm D (Depth excludes connectors.)
SVEQ 100	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) 4.3 cm H x 11.0 cm W x 7.6 cm D (Depth excludes connectors.)
Product weight	0.7 lbs (0.3 kg)
Shipping weight	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

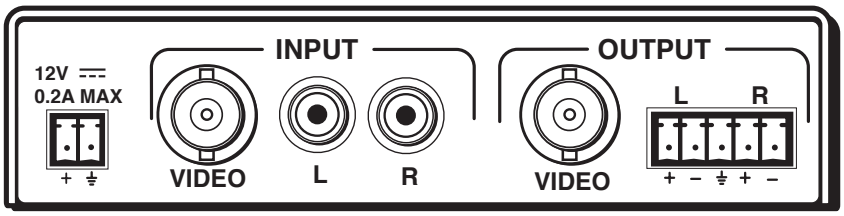
Model	Version Description	Part Number
CVEQ 100	Composite video and audio line driver	60-812-01
SVEQ 100	S-video and audio line driver	60-813-01

Specifications are subject to change without notice.

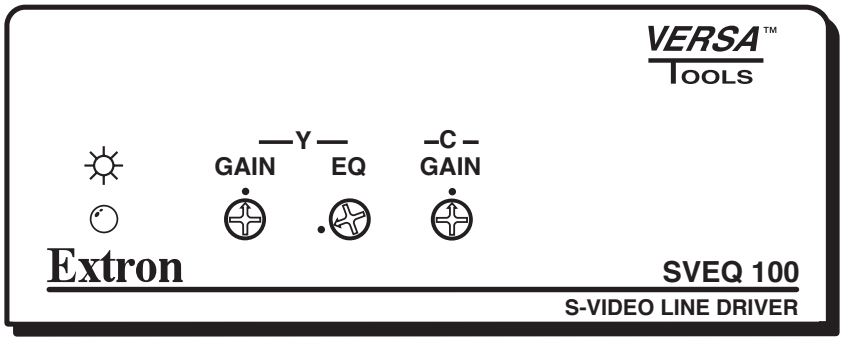
PANEL DRAWINGS

CVEQ 100 - Front

Shown Actual Size

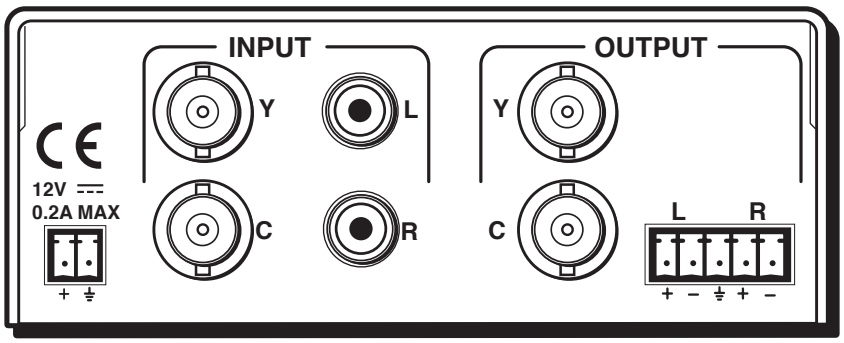


CVEQ 100 - Back



SVEQ 100 - Front

Shown Actual Size



SVEQ 100 - Back

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